AMENDED CLAIMS

[received by the International Bureau on 26 April 2005 (26.04.2005); original claims 1-10 replaced by amended claims 1-10]

Patent Claims

- 1. A compatible optical scanner (PU), which is compatible with an optical scanner (PU) in which a bias current of the laser (LDI or LD2) is modulated for recording or reproduction apparatuses of optical recording media, comprising:
 - a laser modulator (M2) that at least partly or completely switches the laser current and a means for simulating the input characteristic curve of a laser (LD1 or LD2) at an input (E) of said laser modulator (M2).
- 2. The compatible optical scanner (PU) as claimed in claim 1, wherein the means for simulating the input characteristic curve of a laser (LD1 or LD2) is a circuit arrangement that interacts with a current mirror of the optical scanner (PU), said current mirror being provided for regulating the light power of a laser (LD1 or LD2).
- Э. The compatible optical scanner (PU) as claimed in claim 2, wherein the current mirror of the optical scanner (PU) that is provided for regulating the light power of a laser (LD1 or LD2) operational amplifier (OPV) driving a field-effect transistor (FET), the noninverting input (+) of which amplifier is connected to a line carrying reference-ground potential (GD) via a first resistor (R1), the inverting input (-) of the operational amplifier (OPV) and the source of the field-effect transistor (FET) being connected to said line via a second resistor (R2), and the drain of the field-effect transistor (FET) is an output (Out) provided for regulating the light power of a laser (LD1 or LD2).

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- 4. The compatible optical scanner (PU) as claimed in claim 1, wherein a series circuit of diodes (D1...Dn) that is connected upstream of a current mirror of the optical scanner (PU) that is provided for regulating the light power of a laser (LD1 or LD2) is provided for simulating the input characteristic curve of a laser (LD1 or LD2).
- 5. The compatible optical scanner (PU) as claimed in claim 1, wherein a zener diode that is connected upstream of a current mirror of the optical scanner (PU) that is provided for regulating the light power of a laser (LD1 or LD2) is provided for simulating the input characteristic curve of a laser (LD1 or LD2).
- 6. The compatible optical scanner (PU) as claimed in claim 4, wherein the diodes (D1...Dn) form a series circuit of diodes (D1...Dn) arranged in the forward direction with a forward voltage (DD) corresponding to the operating voltage of a laser (LD1 or LD2).
- 7. The compatible optical scanner (PU) as claimed in claim 5, wherein a zener diode with a zener voltage corresponding to the operating voltage of a laser (LD1 or LD2) is provided.
- 8. The compatible optical scanner (PU) as claimed in claim 1, wherein the means for simulating the input characteristic curve of a laser (LD1 or LD2) is arranged on the optical scanner (PU).
- 9. The comparible optical scanner (PU) as claimed in claim 1, wherein the means for simulating the input characteristic curve of a laser (LD1 or LD2) is integrated in the laser modulator (M2).

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10. Recording or reproduction apparatus for optical recording media having a optical scanner (PU) as claimed in claim 1, wherein the means for simulating the input characteristic curve of a laser (LD1 or LD2) is arranged on a main circuit board (H) of the recording or reproduction apparatus.